



## SEQUENCE LISTING

<110> Small, Kersten M  
Liggett, Stephen

*Switch* > <120> Alpha-2A-adrenergic receptor polymorphisms

<130> 13092

<140> 09/636,259

<141> 2000-08-10

<160> 16

<170> PatentIn version 3.1

<210> 1

<211> 1170

<212> DNA

<213> Homo sapiens

<400> 1  
 agccgcgcgc tcaaggcgcc ccaaaacctc ttccctgggtgt ctctggcctc ggccgacatc 60  
 ctgggtggcca cgctcgcat ccctttctcg ctggccaacg aggtcatggg ctactggtac 120  
 ttccggcaagg cttgggtgcga gatctacctg gcgcctcgacg tgctcttctg cacgtcgtcc 180  
 atcgtgcacc tggcgcgcatt cagccctggac cgccactgtt ccacatcacaca ggccatcgag 240  
 tacaacctga agcgacgcgc gcgcgcgcgc aaggccatca tcacatcaccgt gtgggtcatc 300  
 tcggccgtca tctccttccc gccgctcatc tccatcgaga agaaggggcg cggcggcggc 360  
 cccgagccgg ccgagcccg cgctcgagatc aacgaccaga agtggtacgt catctcgatc 420  
 tgcatcggtc ctttcttcgc tccctgcctc atcatgatcc tggtctacgt gcgcatctac 480  
 cagatcgcca agcgtcgcac ccgcgtgcgc cccagdcgcgc ggggtccggc cgccgtcgcc 540  
 gcggccgggg ggggcacccga gcgcaggccc aacgggtctgg gccccgagcg cagcgcgggc 600  
 ccggggggcg cagaggccga accgctgccc acccagatca acggcgcccc tggcgagccc 660  
 gcggccggccg ggccgcgcga caccgacgcg ctggaccctgg aggagagctc gtcttccgac 720  
 cacgcccggc ggcctccagg gccccgcaga cccgagcgcg gtccccgggg caaaggcaag 780  
 gcccggcgca gccagggtgaa gccggggcgac agcctgcgcg ggccgcggcc gggggcgacg 840  
 gggatcgaaa cgccggctgc agggccgggg gaggagcgcg tcggggctgc caaggcgatc 900  
 cgctggcgcg ggcggcagaa ccgcgagaag cgcttacgt tcgtgctggc cgtggtacatc 960  
 ggagtgttcg tggtgtgctg gttccccttc ttcttacact acacgctcac ggccgtcg 1020  
 tgctccgtgc cacgcacgct ctcaaaattc ttcttctggt tcggctactg caacagctcg 1080  
 ttgaacccgg tcacatctacac catctcaac cacgattcc ggcgcgcctt caagaagatc 1140

RECEIVED

APR 19 2002

TECH CENTER 1600/2900

ctctgtcggg gggacaggaa gcggatcgtg

1170

<210> 2  
<211> 1350  
<212> DNA  
<213> Homo sapiens

<400> 2  
atgggctccc tgcagccgga cgcgggcaac gcgagctgga acgggaccga ggccgcgggg 60  
ggccgcggcc gggccacccc ttactccctg caggtgacgc tgacgctggt gtgcctggcc 120  
ggcctgctca tgctgctcac cgtgttcggc aacgtgctcg tcatcatcgc cgtgttcacg 180  
agccgcgcgc tcaaggcgcc ccaaaacctc ttcctggtgt ctctggcctc ggccgacatc 240  
ctggtggcca cgctcgcat cccttctcg ctggccaacg aggtcatggg ctactggtac 300  
ttcggcaagg cttggtgcgaa gatctacctg ggcgtcgacg tgctttctg cacgtcgcc 360  
atcgtgcacc tgtgcgccat cagcctggac cgctactggt ccatcacaca ggccatcgag 420  
tacaacctga agcgcacgccc ggcgcgcate aaggccatca tcatcaccgt gtgggtcattc 480  
tcggccgtca tctccttccc gccgctcatc tccatcgaga agaaggggcgg cggcggcggc 540  
ccgcagccgg ccgagcccgcg ctgcgagatc aacgaccaga agtggtacgt catctcgac 600  
tgcatcggt ctttcttcgc tccctgcctc atcatgatcc tggtctacgt ggcgcattac 660  
cagatcgcca agcgtegcac ccgcgtgcca cccagccgccc ggggtccggc cgccgtcgcc 720  
gcgcgcgcgg ggggcaccga ggcaggcccc aagggtctgg gccccgagcg cagcgcggc 780  
ccggggggcg cagagggccga accgctgccc acccagctca acggcgcccc tggcgagccc 840  
gcgcgcgcgg ggccgcgcga caccgacgcg ctggacctgg aggagagctc gtcttccgac 900  
cacgcgcgagc ggccctccagg gccccgcaga cccgagcgcg gtccccgggg caaaggcaag 960  
gcccgagcga gccaggtgaa gccgggcgac agcctgccc ggcgcgggccc gggggcgacg 1020  
gggatcggga cgccggctgc agggccgggg gaggagcgcg tcggggctgc caaggcgctg 1080  
cgctggcgcg ggcggcagaa ccgcgagaag cgcttcacgt tcgtgctggc cgtggtcattc 1140  
ggagtgttcg tggtgtgctg gttccccttc ttcttcaccc acacgctcac ggccgtcg 1200  
tgctccgtgc cacgcacgct cttcaaattc ttcttctggc tcggctactg caacagctcg 1260  
ttgaacccgg tcatctacac catttcaac cacgatttcc ggcgcgcctt caagaagatc 1320  
ctctgtcggg gggacaggaa gcggatcgtg 1350

<210> 3  
<211> 450

<212> PRT  
<213> Homo sapiens

<400> 3

Met Gly Ser Leu Gln Pro Asp Ala Gly Asn Ala Ser Trp Asn Gly Thr  
1 5 10 15

Glu Ala Pro Gly Gly Ala Arg Ala Thr Pro Tyr Ser Leu Gln Val  
20 25 30

Thr Leu Thr Leu Val Cys Leu Ala Gly Leu Leu Met Leu Leu Thr Val  
35 40 45

Phe Gly Asn Val Leu Val Ile Ile Ala Val Phe Thr Ser Arg Ala Leu  
50 55 60

Lys Ala Pro Gln Asn Leu Phe Leu Val Ser Leu Ala Ser Ala Asp Ile  
65 70 75 80

Leu Val Ala Thr Leu Val Ile Pro Phe Ser Leu Ala Asn Glu Val Met  
85 90 95

Gly Tyr Trp Tyr Phe Gly Lys Ala Trp Cys Glu Ile Tyr Leu Ala Leu  
100 105 110

Asp Val Leu Phe Cys Thr Ser Ser Ile Val His Leu Cys Ala Ile Ser  
115 120 125

Leu Asp Arg Tyr Trp Ser Ile Thr Gln Ala Ile Glu Tyr Asn Leu Lys  
130 135 140

Arg Thr Pro Arg Arg Ile Lys Ala Ile Ile Ile Thr Val Trp Val Ile  
145 150 155 160

Ser Ala Val Ile Ser Phe Pro Pro Leu Ile Ser Ile Glu Lys Lys Gly  
165 170 175

Gly Gly Gly Pro Gln Pro Ala Glu Pro Arg Cys Glu Ile Asn Asp  
180 185 190

Gln Lys Trp Tyr Val Ile Ser Ser Cys Ile Gly Ser Phe Phe Ala Pro  
195 200 205

Cys Leu Ile Met Ile Leu Val Tyr Val Arg Ile Tyr Gln Ile Ala Lys  
210 215 220

Arg Arg Thr Arg Val Pro Pro Ser Arg Arg Gly Pro Asp Ala Val Ala  
225 230 235 240

Ala Pro Pro Gly Gly Thr Glu Arg Arg Pro Asn Gly Leu Gly Pro Glu  
245 250 255

Arg Ser Ala Gly Pro Gly Gly Ala Glu Ala Glu Pro Leu Pro Thr Gln  
260 265 270

Leu Asn Gly Ala Pro Gly Glu Pro Ala Pro Ala Gly Pro Arg Asp Thr  
275 280 285

Asp Ala Leu Asp Leu Glu Glu Ser Ser Ser Ser Asp His Ala Glu Arg  
290 295 300

Pro Pro Gly Pro Arg Arg Pro Glu Arg Gly Pro Arg Gly Lys Gly Lys  
305 310 315 320

Ala Arg Ala Ser Gln Val Lys Pro Gly Asp Ser Leu Pro Arg Arg Gly  
325 330 335

Pro Gly Ala Thr Gly Ile Gly Thr Pro Ala Ala Gly Pro Gly Glu Glu  
340 345 350

Arg Val Gly Ala Ala Lys Ala Ser Arg Trp Arg Gly Arg Gln Asn Arg  
355 360 365

Glu Lys Arg Phe Thr Phe Val Leu Ala Val Val Ile Gly Val Phe Val  
370 375 380

Val Cys Trp Phe Pro Phe Phe Thr Tyr Thr Leu Thr Ala Val Gly  
385 390 395 400

Cys Ser Val Pro Arg Thr Leu Phe Lys Phe Phe Phe Trp Phe Gly Tyr  
405 410 415

Cys Asn Ser Ser Leu Asn Pro Val Ile Tyr Thr Ile Phe Asn His Asp  
420 425 430

Phe Arg Arg Ala Phe Lys Lys Ile Leu Cys Arg Gly Asp Arg Lys Arg  
435 440 445

Ile Val

450

<210> 4  
<211> 450  
<212> PRT  
<213> Homo sapiens

<400> 4

Met Gly Ser Leu Gln Pro Asp Ala Gly Asn Ala Ser Trp Asn Gly Thr  
1 5 10 15

Glu Ala Pro Gly Gly Ala Arg Ala Thr Pro Tyr Ser Leu Gln Val  
20 25 30

Thr Leu Thr Leu Val Cys Leu Ala Gly Leu Leu Met Leu Leu Thr Val  
35 40 45

Phe Gly Asn Val Leu Val Ile Ile Ala Val Phe Thr Ser Arg Ala Leu  
50 55 60

Lys Ala Pro Gln Asn Leu Phe Leu Val Ser Leu Ala Ser Ala Asp Ile  
65 70 75 80

Leu Val Ala Thr Leu Val Ile Pro Phe Ser Leu Ala Asn Glu Val Met  
85 90 95

Gly Tyr Trp Tyr Phe Gly Lys Ala Trp Cys Glu Ile Tyr Leu Ala Leu  
100 105 110

Asp Val Leu Phe Cys Thr Ser Ser Ile Val His Leu Cys Ala Ile Ser  
115 120 125

Leu Asp Arg Tyr Trp Ser Ile Thr Gln Ala Ile Glu Tyr Asn Leu Lys  
130 135 140

Arg Thr Pro Arg Arg Ile Lys Ala Ile Ile Ile Thr Val Trp Val Ile  
145 150 155 160

Ser Ala Val Ile Ser Phe Pro Pro Leu Ile Ser Ile Glu Lys Lys Gly  
165 170 175

Gly Gly Gly Pro Gln Pro Ala Glu Pro Arg Cys Glu Ile Asn Asp  
180 185 190

Gln Lys Trp Tyr Val Ile Ser Ser Cys Ile Gly Ser Phe Phe Ala Pro

195	200	205
Cys Leu Ile Met Ile Leu Val Tyr Val Arg Ile Tyr Gln Ile Ala Lys		
210	215	220
Arg Arg Thr Arg Val Pro Pro Ser Arg Arg Gly Pro Asp Ala Val Ala		
225	230	235
240		
Ala Pro Pro Gly Gly Thr Glu Arg Arg Pro Lys Gly Leu Gly Pro Glu		
245	250	255
Arg Ser Ala Gly Pro Gly Gly Ala Glu Ala Glu Pro Leu Pro Thr Gln		
260	265	270
Leu Asn Gly Ala Pro Gly Glu Pro Ala Pro Ala Gly Pro Arg Asp Thr		
275	280	285
Asp Ala Leu Asp Leu Glu Glu Ser Ser Ser Ser Asp His Ala Glu Arg		
290	295	300
Pro Pro Gly Pro Arg Arg Pro Glu Arg Gly Pro Arg Gly Lys Gly Lys		
305	310	315
320		
Ala Arg Ala Ser Gln Val Lys Pro Gly Asp Ser Leu Pro Arg Arg Gly		
325	330	335
Pro Gly Ala Thr Gly Ile Gly Thr Pro Ala Ala Gly Pro Gly Glu Glu		
340	345	350
Arg Val Gly Ala Ala Lys Ala Ser Arg Trp Arg Gly Arg Gln Asn Arg		
355	360	365
Glu Lys Arg Phe Thr Phe Val Leu Ala Val Val Ile Gly Val Phe Val		
370	375	380
Val Cys Trp Phe Pro Phe Phe Thr Tyr Thr Leu Thr Ala Val Gly		
385	390	395
400		
Cys Ser Val Pro Arg Thr Leu Phe Lys Phe Phe Phe Trp Phe Gly Tyr		
405	410	415
Cys Asn Ser Ser Leu Asn Pro Val Ile Tyr Thr Ile Phe Asn His Asp		
420	425	430

Phe Arg Arg Ala Phe Lys Lys Ile Leu Cys Arg Gly Asp Arg Lys Arg  
 435 440 445

Ile Val  
 450

<210> 5  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens

<400> 5  
 ttatccccatc ggctctccct ac

22

<210> 6  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 6  
 gagacaccag gaagagggtt tgg

23

<210> 7  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
 tcgtcatcat cgccgtgttc

20

<210> 8  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 cgtaccacctt ctggtcgttg atc

23

<210> 9  
 <211> 24  
 <212> DNA  
 <213> Homo sapiens

<400> 9  
 gccatcatca tcaccgtgtg ggtc

24

<210> 10  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 10

ggctcgctcg ggcattgcct ttg

23

<210> 11  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens

<400> 11  
 gacctggagg agagctcgac tt

22

*sub 17*  
 <210> 12  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 12  
 tgaccgggtt caacgagctg ttg

23

*PF*  
 <210> 13  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 13  
 gccacgcacg ctcttcaaatt tct

23

<210> 14  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens

<400> 14  
 ttcccttgtt ggagcagcag ac

22

<210> 15  
 <211> 18  
 <212> DNA  
 <213> Homo sapiens

<400> 15  
 tgtaaaacgaa cggccagt

18

<210> 16  
 <211> 18  
 <212> DNA  
 <213> Homo sapiens

<400> 16  
 cagaaaaacag ctatgacc

18